

ER-2 #806 06/12/17 - 06/13/17

Aircraft: [ER-2 - AFRC #806](#) ([See full schedule](#))

Flight Number: 17-6041

Payload Configuration: AVIRIS-C and MASTER

Nav Data Collected: Yes

Total Flight Time: 7.6 hours

Comments: Took off at 1638 GMT; landing at 0014 GMT for a 7.6 hour mission. The pilot did not see any fail lights or have any issues with the AVIRIS-C and MASTER instruments. Instrument operations went as expected. Scattered clouds only over the LA basin. Everywhere else was sky clear. Tim counted the minutes that he flew over the scattered clouds to determine the percent cloud coverage for the lines through the LA basin. The estimate for cloud coverage was between 10 and 20 percent for the flight lines through the LA basin. The southern and northern ends of the lines; and the coast was sky clear. All clouds dissipated by 2200 GMT. Today's landing came very close to being diverted to Beale AFB, north of Sacramento, CA because of winds exceeding the ejection seat limits. The winds died down enough to land locally in Palmdale. At about 2335 GMT, the decision was made to RTB because the weather forecaster (not NASA AFRC) expected the wind to increase back above ejection seat limits. More details are in the AFRC ER-2 Flight Report. Tim Williams noted during the flight debrief that the LTN-92 INS had issues later during the flight. The INS drifted a lot, up to 43 miles off. Tim also noted that he experienced moderate turbulence a few times during today's flight. Tim Williams was the pilot.

Submitted by: Kevin Walsh on 06/13/17

Flight Segments:

From:	Palmdale, CA	To:	Palmdale, CA
Start:	06/12/17 16:38 Z	Finish:	06/13/17 00:14 Z
Flight Time:	7.6 hours		
Log Number:	172036	PI:	Robert Green
Funding Source:	Jack Kaye - NASA - SMD - ESD Director Research and Analysis		
Purpose of Flight:	Science		
Comments:	The purpose of the third HysplRI-CA flight for FY17 was to fly the Southern California Box.		

Flight Hour Summary:

	162034	172036
Flight Hours Approved in SOFRS	45	
Flight Hours Previously Approved		9.9
Total Used	35.1	46.6
Total Remaining		-36.7

172036 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
06/07/17	17-6039	Science	5.7	5.7	4.2	
06/09/17	17-6040	Science	3.1	8.8	1.1	
06/12/17 - 06/13/17	17-6041	Science	7.6	16.4	-6.5	
06/13/17	17-6042	Science	6.6	23	-13.1	
06/14/17	17-6043	Science	5.8	28.8	-18.9	
06/20/17	17-6044	Science	5.3	34.1	-24.2	
06/22/17	17-6045	Science	5.2	39.3	-29.4	
06/28/17	17-6047	Science	7.3	46.6	-36.7	

Source URL: https://airbornescience.nasa.gov/flight_reports/ER-2_806_06_12_17_-_06_13_17#comment-0

Page Last Updated: April 22, 2017

Page Editor: Brad Bulger

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Flight Reports began being entered into this system as of 2012 flights. If there were flights flown under an earlier log number the flight reports are not available online.

162034 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
06/09/16	16-6026	Science	4.7	4.7	40.3	
06/15/16	16-6027	Science	3	7.7	37.3	
06/16/16	16-6028	Science	7.6	15.3	29.7	
06/17/16	16-6029	Science	5.1	20.4	24.6	
06/20/16	16-6030	Science	6.6	27	18	
06/21/16	16-6031	Science	8.1	35.1	9.9	